Notice of Allowability	Application No.	Applicant(s)	
	10/044,045	KASHANI, AHMAD REZA	
	Examiner	Art Unit	
	Devona E. Faulk	2615	
	Devolla E. Faulk	2013	
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is si	this application. If not included nication will be mailed in due course. T	
1. This communication is responsive to <u>5/4/2007</u> .			
2. The allowed claim(s) is/are <u>34-41</u> .			
3. Acknowledgment is made of a claim for foreign priority ur a) All b) Some* c) None of the:		ν (f).	
Certified copies of the priority documents have			
2. Certified copies of the priority documents have			41
3. Copies of the certified copies of the priority do	cuments have been received	in this national stage application from	the
International Bureau (PCT Rule 17.2(a)).		•	
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			F
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.		
(a) including changes required by the Notice of Draftspers	son's Patent Drawing Review	(PTO-948) attached	
1) hereto or 2) to Paper No./Mail Date			
(b) including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or	in the Office action of	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t	.84(c)) should be written on th he header according to 37 CFI	e drawings in the front (not the back) of R 1.121(d).	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT	sit of BIOLOGICAL MATE FOR THE DEPOSIT OF BIO	RIAL must be submitted. Note the LOGICAL MATERIAL.	
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Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 D Notice of Inf	ingenet Detent Application	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	<u> </u>	ormal Patent Application	
_	Paper No./I	ımmary (PTO-413), Mail Date Amendment/Comment	
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 	7. 🗌 Examiner's /	Amendment/Comment	
4. Examiner's Comment Regarding Requirement for Deposit	8. 🛭 Examiner's	Statement of Reasons for Allowance	
of Biological Material	9. 🗌 Other	,	·
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DETAILED ACTION

Response to Remarks

- 1. The applicant has cancelled claims 1-33 and 42-66.
- 2. Claims 34-41 were indicated as allowable in the previous office action and remain in allowable form.

Allowable Subject Matter

3. Claims 34-41 re allowed.

The following is an examiner's statement of reasons for allowance: Regarding claims 34,40 and 41 prior art Kashani (US 5,974,155) discloses a system for actively damping noise comprising: an enclosure defining a plurality of acoustic modes; an acoustic wave sensor positioned within said enclosure, wherein said acoustic wave sensor is operative to produce a first signal representative of said plurality of acoustic modes; an acoustic wave actuator responsive to a second signal and positioned within said enclosure, wherein said acoustic wave actuator is substantially collocated with said acoustic wave sensor; and an electronic feedback loop defining an input coupled to said first signal and an output, wherein said electronic feedback loop is operative to generate said second signal at said output by applying a feedback loop transfer function to said first signal, and wherein said feedback loop transfer function comprises a second order differential equation including a first variable representing a predetermined damping coefficient and a second variable representing a tuned natural frequency, said second variable representing said tuned natural frequency is selected to be tuned to a natural

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frequency of at least one acoustic mode of said plurality of acoustic modes said feedback loop transfer function defines a frequency response having a characteristic maximum gain substantially corresponding to the value of said tuned natural frequency, and wherein said feedback loop transfer function creates a 90 degree phase lead substantially at said tuned natural frequency. The prior art or combination thereof fails to disclose or make obvious a motion sensor secured to a panel of said enclosure wherein said motion sensor is configured to produce a motion sensor signal representative of at least one of said plurality of low-frequency acoustic modes and wherein said vibro-acoustic controller defines a second electronic feedback loop input coupled to said motion sensor and a second electronic feedback loop output and wherein said electronic feedback loop is configured to generate said second electronic feedback loop output signal by applying said feedback loop transfer function to said motion sensor signal. Therefore, the prior art or combination thereof fails to disclose or

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

make obvious a system and method for actively damping boom noise.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Devona E. Faulk whose telephone number is 571-272-7515. The examiner can normally be reached on 8 am - 5 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vivian Chin can be reached on 571-272-7848. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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